	Application No.	Applicant(s)
Notice of Allowability	09/449,159	ABBOTT ET AL.
	Examiner	Art Unit	
	Jenise E. Jackson	2131	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *11/10/05*.

2. ☒ The allowed claim(s) is/are *1,2,4,6-15,18-23, 25-31, 34-38, 40-46, 49, 51-52, 54, 56-59, 61-64, 66-72, 74-77, 80-87, 89* .

3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All   b)☐ Some*   c)☐ None of the:

      1. ☐ Certified copies of the priority documents have been received.

      2. ☐ Certified copies of the priority documents have been received in Application No. _____ .

      3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

    * Certified copies not received: _____ .

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

    (a)☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached

      1)☐ hereto or 2)☐ to Paper No./Mail Date _____ .

    (b)☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____ .

    Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)

2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date _____

4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5. ☐ Notice of Informal Patent Application (PTO-152)

6. ☒ Interview Summary (PTO-413), Paper No./Mail Date *11162005* .

7. ☒ Examiner's Amendment/Comment

8. ☒ Examiner's Statement of Reasons for Allowance

9. ☐ Other _____ .

Examiner's Amendment

1.   The Applicant's Representative, Edward Yee, Attorney of Record, has agreed to amend the independent claims as follows:

2.   Independent Claims 1, 18, 35, 49, 61, 71, 77, 80, 86, will be amended, after the limitations of, "a character input device", include the limitations of "integrated with the personal token". Also, as per claims 1, 18, 35, 49, 61, 71, 77, 80, 86 after the limitation of "and actuation of the second pressure sensitive device enters the character", the limitation of "the first and second pressure sensitive devices integrated with the personal token" will be inserted.

3.   1. (Currently amended) A compact personal token, comprising:

a USB-compliant interface releaseably coupleable to a host processing device;

a token memory; a token processor, communicatively coupled to the token memory and communicatively coupleable to the host processing device via the USB-compliant interface, the token processor for providing the host processing device conditional access to user private data stored in the token memory; and a user input device, communicatively coupled to the token processor by a path distinct from the USB-compliant interface, for accepting an input for processing by the token processor to signal authorization of a token processor operation providing access to the user private data stored in the token memory, the input in response to a message received in the token from the host processing device via the USB-compliant interface invoking the token processor operation, wherein user authentication occurs on the tokens the user input device comprising one of: a character input device **integrated with the personal token,** the character input device comprising a wheel having an input position for each character in an input character set; or a first pressure sensitive device actuatable from an exterior

side of the token and a second pressure sensitive device actuatable from the exterior side of the token, wherein actuation of the first pressure sensitive device selects a character from said input character sets and actuation of the second pressure sensitive device enters the character, **the first and second pressure sensitive devices integrated with the token.**

4.   18. (Currently amended) A method of authorizing access to private data stored in a token having a processor communicatively coupled to a host processor via a Universal Serial Bus (USB) interface, comprising the steps of:

authenticating a user identity in the token; accepting a command in the token invoking a token processor operation via the USB interface; accepting a user input signaling authorization of the token processor operation via an input device providing the user input to the token processor via a communication path distinct from the USB-compliant interface, and processing the user input in the token processor to authorize the invoked token processor operations wherein the input device comprises one of: a character input device **integrated with the personal token**, the character input device comprising a wheel having an input position for each character in an input character set or a first pressure sensitive device actuatable from an exterior side of the token and a second pressure sensitive device actuatable from the exterior side of the tokens wherein actuation of the first pressure sensitive device selects a character from said input character sets and actuation of the second pressure sensitive device enters the character, **the first and second pressure sensitive devices integrated with the token**.

5.   35. (Currently amended) A program storage device, readable by a computer, tangibly

embodying at least one program of instructions executable by the computer to perform method steps of authorizing access to private data stored in a token having a processor communicatively coupled to a host processor via a Universal Serial Bus (USB) interface, the method steps comprising the steps of: authenticating, in the token, a user identity; accepting a command in the token invoking a token processor operation via the USB-compliant interface; determining, in the token, if the token processor operation requires access to the private data stored in the token; prompting the user to authorize the token processor operation via an output device communicatively coupled to the token processor by a path distinct from the USB-compliant interface if the token processor operation requires access to a private data stored in a memory in the token; accepting a user input signaling authorization of the token processor operation via an input device; and providing the user input to the token processor via a communication path distinct from the USB-compliant interfaces wherein the input device comprises one of:

a character input device **integrated with the personal token,** the character input device comprising a wheel having an input position for each character in an input character set a first pressure sensitive device actuatable from an exterior side, and a second pressure sensitive device actuatable from the exterior side of the token wherein actuation of the first pressure sensitive device selects a character from said input character sets and actuation of the second pressure sensitive device enters the character, **the first and second pressure sensitive devices integrated with the personal token**.

6.   49. (Currently amended) A compact personal token, comprising:

a USB-compliant interface releaseably coupleable to a host processing device;

a token memory; a token processor, coupled to the token memory and communicatively coupleable to the host processing device via the USB-compliant interface, the token processor for providing the host processing device conditional access to store and retrieve data storable in the token memory, the data including a personal identification private to the user; and

a user input device, communicatively coupled to the token processor by a path distinct from the USB-compliant interface, for accepting a user input describing the personal identification, the user input device for authenticating by the token the personal identification private to the user, the user input device comprising one of: a character input devices **integrated with the personal token,** the character input device comprising a wheel having an input position for each character in an input character set or a first pressure sensitive device actuatable from an exterior side of the token and a second pressure sensitive device actuatable from the exterior side of the token, wherein actuation of the first pressure sensitive device selects a character from said input character set, and actuation of the second pressure sensitive device enters the character, **the first and second pressure sensitive devices integrated with the personal token**.

7.   61.(Currently amended) A compact personal token, comprising:

a USB-compliant interface releaseably coupleable to a host processing device;

a token memory; a token processor, communicatively coupled to the token memory and communicatively coupleable to the host processing device via the USB-compliant interface, the token processor for providing the host processing device conditional access to user private data storable in the token memory; and a user input device, communicatively coupled to the token processor by a path distinct from the USB-compliant interface, the user input device for

signaling authorization of a token processor operation invoked by a message received in the

token via the USB-compliant interface, wherein the token authenticates user identity, the user

input device comprising one of: a character input device **integrated with the personal**

token, the character input device comprising a wheel having an input position for each

character in an input character set; or a first pressure sensitive device actuatable from an exterior

side of the token, and a second pressure sensitive device actuatable from the exterior side of the

token wherein actuation of the first pressure sensitive device selects a character from said input

character set, and actuation of the second pressure sensitive device enters the character, **the**

first and second pressure sensitive devices integrated with the personal token.

8.   71.(Currently amended) A method of authorizing access to private data stored in a token

having a processor communicatively coupled to a host processor via a Universal Serial Bus

(USB) interface, comprising the steps of: authenticating a user identity in the token;

accepting a command in the token invoking a token processor operation via the USB-

compliant interface; accepting a user input to control the token processor operation via an input

device; and providing the user input to the token processor via a communication path distinct

from the USB-compliant interface wherein the input device comprises one of a character input

device **integrated with the personal token,** the character input device comprising a

wheel having an input position for each character in an input character set; or a first pressure

sensitive device actuatable from an exterior side of the token and a second pressure sensitive

device actuatable from the exterior side of the token wherein actuation of the first pressure

sensitive device selects a character from said input character set and actuation of the second

pressure sensitive device enters the character, **the first and second pressure sensitive**

devices integrated with the personal token.

9.   77. (Currently amended) A compact personal token, comprising:

a USB-compliant interface releaseably coupleable to a host processing device;

a token memory; a token processor, communicatively coupled to the token memory and

communicatively coupleable to the host processing device via the USB-compliant interface, the

token processor for providing the host processing device conditional access to data storable in

the memory; the token processor for authenticating a user identity; and a user output device,

communicatively coupled to the USB-compliant interface, for providing an indication of a data

signal from the USB-compliant interface; and a user input device for receiving an input to signal

authorization to provide the host processing device access to said data storable in the memory,

the user input device comprising one of: a character input device **integrated with the**

personal token, the character input device comprising: a wheel having an input position for

each character in an input character set; or a first pressure sensitive device actuatable from an

exterior side of the token and a second pressure sensitive device actuatable from the exterior side

of the token wherein actuation of the first pressure sensitive device selects a character from said

input character set and actuation of the second pressure sensitive device enters the character, **the**

first and second pressure sensitive devices integrated with the personal token.

10.   80. (Currently amended) A compact personal token, comprising:

a USB-compliant interface releaseably coupleable to a host processing device;

a token memory; a token processor, communicatively coupled to the token memory and communicatively coupleable to the host processing device via the USB-compliant interface, the token processor for providing the host processing device conditional access to data storable in the token memory, the token processor authenticating a user identify; and a user output device, communicatively coupled to the token processor; and a user input device for receiving an input to signal authorization to provide the host processing device access to said data storable in the memory, the user input device comprising one of: a character input device **integrated with the personal token,** the character input device comprising a wheel having an input position for each character in an input character set; or a first pressure sensitive device actuatable from an exterior side of the token, and a second pressure sensitive device actuatable from the exterior side of the token, wherein actuation of the first pressure sensitive device selects a character from said input character sets and actuation of the second pressure sensitive device enters the character, **the first and second pressure sensitive devices integrated with the personal token**.

11.   86. (Currently amended) A method of authorizing access to private data

stored in a token having a processor communicatively coupled to a host processor via a Universal Serial Bus (USB) interface, comprising the steps of:

authenticating in the token a user identity; accepting a command in the token invoking a token processor operation via the USB-compliant interface; and signaling the token processor operation, via a user output device communicatively coupled to the token processor via a communication path distinct from the USB-compliant interface; receiving, at a user input device of the token, an input signaling authorization of the token processor operation wherein the user

input device comprising one of: a character input device **integrated with the personal**

token, the character input device comprising a wheel having an input position for each

character in an input character set: or a first pressure sensitive device actuatable from an exterior

side of the token and a second pressure sensitive device actuatable from the exterior side of the

token wherein actuation of the first pressure sensitive device selects a character from said input

character set and actuation of the second pressure sensitive device enters the character, **the first**

and second pressure sensitive devices integrated with the personal token.

Reasons For Allowance

12.   Status of Claims: Claims 1-2, 4, 6-15, 18-31, 34-46, 49, 51-52, 54, 56-59, 61-64, 66-72,

74-77, 80-87, 89, were amended to include previously allowable subject matter of Independent

claims 51, 58, in office action dated 9/26/05. The reasons why the claims are allowable are listed

below:

13.   In the prior art of security, prior art fails to disclose a, "character input device integrated

with the personal token, the character input device including a wheel having an input position for

each character in an input character set", and "a second pressure sensitive device actuatable from

the exterior side of the token wherein actuation of the first pressure sensitive device selects a

character from said input character set and actuation of the second pressure sensitive device

enters the character". An example of prior art in security that fails to disclose a "character input

device integrated with the personal token, the character input device including a wheel having an

input position for each character in an input character set", is Rallis. Rallis discloses an IR

key(token) that is to prevent unauthorized users for gaining access to the computer. Rallis

discloses a pin can be entered by a keyboard that is coupled to a computer. Rallis fails to

disclose or suggest, "character input device integrated with the personal token, the character

input device including a wheel having an input position for each character in an input character

set" or a "a second pressure sensitive device actuatable from the exterior side of the token

wherein actuation of the first pressure sensitive device selects a character from said input

character set and actuation of the second pressure sensitive device enters the character", Rallis

enters data on the keyboard not does not enter data on the token .

14.   In the prior art of intelligent token, prior art fails to disclose or suggest a, "character input

device integrated with the personal token, the character input device including a wheel having an

input position for each character in an input character set", or "a second pressure sensitive device

actuatable from the exterior side of the token wherein actuation of the first pressure sensitive

device selects a character from said input character set and actuation of the second pressure

sensitive device enters the character".   An example of prior art in intelligent token that fails to

disclose or suggest, a "character input device integrated with the personal token, the character

input device including a wheel having an input position for each character in an input character

set", or a "a second pressure sensitive device actuatable from the exterior side of the token

wherein actuation of the first pressure sensitive device selects a character from said input

character set and actuation of the second pressure sensitive device enters the character" is Caputo

et al. Caputo et al. discloses a smartcard with a keypad, in which a user can enter a pin or some

other numerical data during authentication. The keypad of Caputo is integrated with the personal

token. However, Caputo discloses one pressure sensitive device, which is a keypad, the character

is selected and entered using the same keypad. There is no disclosure or suggestion of a second

pressure sensitive device. Furthermore, there is no disclosure or suggestion of a, "character input

device integrated with the personal token, the character input device including a wheel having an

input position for each character in an input character set".

15.   Also, in the prior art of intelligent token, prior art fails to disclose or suggest a, "character

input device integrated with the personal token, the character input device including a wheel

having an input position for each character in an input character set". An example of prior art in

intelligent token that fails to disclose or suggest, a "character input device integrated with the

personal token, the character input device including a wheel having an input position for each

character in an input character set" is Weiss. Weiss discloses a token that includes a token

processor that is used to access a resource on a computer. The token of Weiss has a keypad that

is used to input data. However, Weiss does not disclose or suggest a "character input device

integrated with the personal token, the character input device including a wheel having an input

position for each character in an input character set".

16.   In the prior art of networking, prior art fails to disclose or suggest a, "character input

device integrated with the personal token, the character input device including a wheel having an

input position for each character in an input character set". An example of prior art that fails to

disclose or suggest a, "character input device integrated with the personal token, the character

input device including a wheel having an input position for each character in an input character

set", is Ugawa et al. Ugawa et al. discloses an IC card that includes a keypad. The keypad is

used by the user or operator to enter data, and the data is displayed on the LCD display of

Ugawa. Ugawa does not disclose or suggest a character input device integrated with the personal

token, the character input device including a wheel having an input position for each character in

an input character set.

17.   In the prior art of Non-Patent Literature, prior art fails to teach or suggest a, "character

input device integrated with the personal token, the character input device including a wheel

having an input position for each character in an input character set". An example of non-patent

literature that fails to teach or suggest a, "character input device integrated with the personal

token, the character input device including a wheel having an input position for each character in

an input character set", is Greenmeier. Greenemeir teaches a two-factor authentication scheme.

That includes an IC card and the secure pin. Greenemeir teaches that the IC card called SecurID

includes a keypad. However, there is no suggestion or teaching of a "character input device

integrated with the personal token, the character input device including a wheel having an input

position for each character in an input character set".

Conclusion

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Jenise E. Jackson whose telephone number is (571) 272-3791.

The examiner can normally be reached on M-Th (6:00 a.m. - 3:30 p.m.) alternate Friday's.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Ayaz Sheikh can be reached on (571) 272-3795. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

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system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

November 16, 2005

AYAZ SHEIKH
SUPERVISORY PATENT EXAMINER
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